

In the Claims:

1. (Cancelled)

2. (Currently Amended) ~~The apparatus of claim 1,~~ A power-up detection apparatus,
comprising:

a voltage divider for dividing an inputted power voltage in a predetermined ratio;

a potential detector for comparing a predetermined potential with a potential outputted
from said voltage divider, and outputting a comparison result; and

a buffer for changing the level of said comparison result when said comparison result
outputted from said potential detector is maintained at a predetermined potential for a
predetermined period,

wherein said buffer includes:

a first noise filter for changing the level of said comparison result when the
comparison result outputted from said potential detector is maintained at a high level over a
predetermined period; and

a second noise filter for changing the level of said comparison result when an
output signal from said first noise filter is maintained at a low level over a predetermined period.

3. (Original) The apparatus of claim 2, wherein said first noise filter includes:

a delay means for delaying the comparison result outputted from said potential detector
for a predetermined time; and

an operating means for logically operating said comparison result and an output signal
from said delay means.

4. (Original) The apparatus of claim 3, wherein a predetermined time of said delay
means is set to be longer than an interval where a predetermined noise of said external power
voltage is maintained at a high level.

5. (Original) The apparatus of claim 2, wherein said second noise filter includes:
a delay means for delaying an output signal from said first noise filter for a predetermined time; and
an operating means for logically operating said comparison result and an output signal from said delay means.

6. (Original) The apparatus of claim 5, wherein a predetermined delay time of said delay means is set to be longer than an interval where a predetermined noise of said external power voltage is maintained at a low level.

7. (Previously Presented) The apparatus of claim 3, wherein said delay means includes an adjustable delay line for regulating a delay time.

8. (Currently Amended) ~~The apparatus of claim 1,~~ A power-up detection apparatus, comprising:

a voltage divider for dividing an inputted power voltage in a predetermined ratio;
a potential detector for comparing a predetermined potential with a potential outputted from said voltage divider, and outputting a comparison result; and
a buffer for changing the level of said comparison result when said comparison result outputted from said potential detector is maintained at a predetermined potential for a predetermined period,

wherein said buffer includes:

a first delay means for delaying the comparison result outputted from said potential detector for a predetermined time;

a first NAND gate for NANDing said comparison result and an output signal from said first delay means;

a second delay means for delaying an output signal from said first NAND gate;
and

a second NAND gate for NANDing the output signal from said first NAND gate

and an output signal from said second delay means.

9. (Original) The apparatus of claim 8, wherein a predetermined delay time of said first delay means is set to be longer than an interval where a predetermined noise of said external power voltage is maintained at a high level.

10. (Original) The apparatus of claim 8, wherein a predetermined delay time of said second delay means is set to be longer than an interval where a predetermined noise of said external power voltage is maintained at a low level.

11. (Previously Presented) The apparatus of claim 8, wherein said delay means includes an adjustable delay line for regulating a delay time.